

## United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office A bluess of SIMBSBI (SEK) F FATE ITS AND TRADEMARKS Washington (D.C. 2022) waw 08p00000

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09 888.494	06 26 2001	Han-Chao Lai	4425-154	9082
7890 03 18 2003			EXAMINER	
Benjamin J. Hauptman LOWE HAUPTMAN GILMAN & BERNER, LLP Suite 310 1700 Diagonal Road Alexandria, VA 22314			PHAM, LONG	
			ART UNIT	PAPER NUMBER
			2×14	

DATE MAILED: 03/18/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	
		09/888,494 LAI ET AL.		
Adv	Advisory Action	Examiner	Art Unit	
		Long Pham	2814	
	The MAILING DATE of this communication app	cong the cover sheet	with the correspondence ad	dress
HE REPL herefore, inal reject	Y FILED 03 March 2003 FAILS TO PLACE To further action by the applicant is required to a ion under 37 CFR 1.113 may only be either: (100 or allowance; (2) a timely filed Notice of Appears (RCE) in compliance with 37 CFR 1.114.	THIS APPLICATION IN Evoid abandonment of t	nis application. A proper report which places the application at imely filed Request for	oly to a
b) T n 7 Extensifee have be fee under 3 (2) as set fo	he period for reply expires 3 months from the mailing dath the period for reply expires on: (1) the mailing date of this o event, however, will the statutory period for reply expire DNLY CHECK THIS BOX WHEN THE FIRST REPLY WAS 106.07(f). It is not soft time may be obtained under 37 CFR 1.136(a). The filed is the date for purposes of determining the period of CFR 1.17(a) is calculated from: (1) the expiration date of the control of the co	e later than SIX MONTHS from the later than SIX MONTHS from the SILED WITHIN TWO MONTHS from the later on which the petition of extension and the corresponding the shortened statutory periffice later than three months of CFR 1.704(b).	under 37 CFR 1.136(a) and the apponding amount of the fee. The approach for reply originally set in the final reafter the mailing date of the final reafter.	propriate extension oppropriate extension at Office action; or
1. A I	Notice of Appeal was filed on Appellan	t's Brief must be filed w FR 1.191(d)), to avoid	vithin the period set forth in dismissal of the appeal.	
	, and mont(s) will not be entered	pecause.		<b>)</b> .
(a) [x	1 t <del>hey raise new issues that would require fur</del>	ther consideration and	or search (see NOTE below	<i>)</i>
(b) [	they raise the issue of new matter (see Note	e below);	to sight reducing of	simplifying the
(c) [	they are not deemed to place the application	n in petter form for app	eal by materially reducing of	aims
(d) [	without cand	celing a corresponding	number of finally rejected cit	AII 113.
` '	NOTE: See the attached office action.			
2□ Ar	when the roply has overcome the following reju	ection(s):		
ΔΠN	ewly proposed or amended claim(s) wo	ould be allowable if subr	nitted in a separate, timely fi	led amendment
5.図 T	he a)☐ affidavit, b)☐ exhibit, or c)⊠ request	for reconsideration ha	s been considered but does action.	NOT place the
l Б⊓т	he affidavit or exhibit will NOT be considered	because it is not direct	SO SOLLLY to isource mine	were newly
7.区 F	or purposes of Appeal, the proposed amendn explanation of how the new or amended claim		entered or b)  will be enter provided below or appended	
٦ ا	he status of the claim(s) is (or will be) as follo	ows:		
	Claim(s) allowed: Claim(s) objected to:			
	Claim(s) rejected: <u>1-18</u> .  Claim(s) withdrawn from consideration:  The proposed drawing correction filed on	is a) approved or	b) disapproved by the E	xaminer.
8. 🗌	The proposed drawing correction med on Note the attached Information Disclosure Stat	ement(s)( PTO-1449) I	Paper No(s)	
- 1	Other:			
	_		Long Pham Primary Exar Art Unit: 281	niner 4

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### **DETAILED ACTION**

# Response to Amendment after final or Advisory Action Status of the amendment after final rejection

The changes in the amendment after final dated 03/03/03 have already been entered in the previous amendment. Therefore, the amendment after final has not been entered.

## Status of the pending claims after final rejection

See the final rejection.

#### Response to Arguments

Applicant's arguments filed 03/03/03 have been fully considered but they are not persuasive.

In response to the applicants' arguments in the paragraphs on pages 7 and 8 of the amendment dated 03/03/03, it is submitted that the claims 1 and 9 as written do not require that the source/drain extended region or LDD are formed by diffusion from the implanted ions of the source/drain implantation. Claims 1 and 9 simply require that the source/drain and the source/drain extended region are formed after the rapid thermal annealing. In other words, the source/drain extended region can be either formed by a separate in implantation and the rapid thermal annealing or by diffusion from the implanted ions of source/drain implantation and the rapid thermal diffusion.

In response to the applicants' arguments in the paragraphs on pages 7 and 8 of the amendment dated 03/03/03, it is submitted that the applicants have not shown that the depth of the trench is critical or produces any unexpected results and consequently, it is submitted that it is not inventive to discover the optimum or

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workable ranges of a result-effective variable such as the depth of the trench within given prior art conditions by routine experimentation. See MPEP 2144.05.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Long Pham whose telephone number is 703-308-1092. The examiner can normally be reached on M-F, 8:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on 703-308-4918. The fax phone numbers for the organization where this application or proceeding is assigned are 703-746-4082 for regular communications and 703-746-4082 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

Long Pham

Primary Examiner

Art Unit 2814

L. P.

March 15, 2003